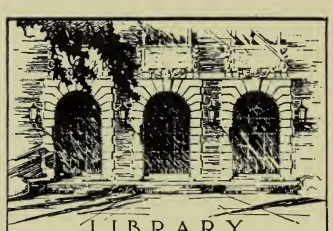

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Calendar for 1920

JANUARY.

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COLLEGE CALENDAR

1920

Sept. 16-18,	Thursday-Saturday	Registration.
Sept. 16-17,	Thursday-Friday	Condition and Entrance Examinations.
Sept. 20,	Monday	Class Exercises begin.
Oct. 12,	Tuesday	Columbus Day.
Oct. 25-27,	Monday-Wednesday	Annual Retreat.
Nov. 1,	Monday	All Saints' Day, Holiday.
Nov. 2,	Tuesday	Election Day.
Nov. 17,	Wednesday	Quarterly Examinations, High School.
Nov. 25,	Thursday	Thanksgiving Day.
Dec. 20,	Saturday	Christmas Recess begins 11:50.
Dec. 21,	Monday	Condition Examinations.
		1921
Jan. 3,	Monday	Class Exercises resumed, 8:50 A.M.
Jan. 24,	Monday	Examinations.
Feb. 1,	Tuesday	Second Semester begins.
Feb. 12,	Saturday	Lincoln's Birthday, Holiday.
Feb. 22,	Tuesday	Washington's Birthday, Holiday.
Feb. 27,	Sunday	High School Contest in Public Speaking.
Mar. 23-30,	Wednesday-Wed.	Easter Recess.
Mar. 23,	Wednesday	Condition Examinations.
Apr. 3,	Sunday	Contest for Grady Medal for Oratory.
Apr. 7,	Thursday	Quarterly Examinations, High School.
May 16,	Monday	Feast of St. De La Salle, Holiday.
May 23,	Monday	Senior Examinations begin.
May 30,	Monday	Decoration Day, Services for Deceased Alumni.
June 1-4,	Wednesday-Saturday	Graduates' Retreat.
June 6-11,	Monday-Saturday	Examinations.
June 12,	Sunday	Baccalaureate Sermon.
June 14,	Tuesday	Commencement Exercises. General Meeting of the Alumni Societies.

OFFICERS OF THE COLLEGE

BROTHER HENRY AUGUST

Chairman of Board of Trustees

BROTHER JASPER

President

BROTHER SEBASTIAN

Registrar

BROTHER THOMAS

Dean

BROTHER ANGELUS

Treasurer

HISTORY AND ORGANIZATION

THE institution now known as Manhattan College was opened in 1849 as an academy for young men who desired advanced instruction. From its original location in Canal Street, it was transferred in 1853 to its present site, where it was known as the Academy of the Holy Infancy. In 1863, it was incorporated by the Regents of the University of the State of New York under its present title, and empowered to confer the usual academic degrees.

The College offers two departments of study, the Department of Arts and the Department of Civil Engineering. The courses in the former lead to the degrees of Bachelor of Arts and Master of Arts, and include the studies prescribed for entrance to medical schools; in the latter, to the degrees of Bachelor of Science in Civil Engineering and Civil Engineer. The requirements for admission into both departments and the respective courses of study will be found on pages 10 and 20.

As the vernacular language and literature constitute an essential feature of a sound education, special attention is given in both departments to the study of English. The importance of the natural and experimental sciences is emphasized in the courses given in biology, physics, chemistry, and geology. These courses are of special benefit to students preparing for medical school. Of no less advantage for the prospective law student are the courses in logic and political and social science. For students who intend to embrace the teaching profession, there are offered courses in pedagogy and in the history and psychology of education.

Besides the College proper, there is a High School department. This department offers two courses—a modern language course and a business course. The former, which corresponds to the ordinary four-year high school course, prepares directly for college entrance; the latter, which offers two years of commercial work, may be elected after the completion of two years' work in a regular high school course.

In both the Collegiate and High School departments every attention is bestowed on the moral and religious training of the student. Christian doctrine is taught in all the classes. Regular attention to religious duties is required of all students. Though the College is Catholic in its tone and teaching, non-Catholic students are received.

The Library contains 12,000 volumes, and additions are regularly made to keep the general reference section abreast of modern development. In the College Reading Room, the best current periodicals are kept on file.

The College Museums offer adequate facilities for research work in zoology, botany, geology and mineralogy.

EXPENSES

Resident Students (Laundry extra)	$500 00
Day Students, College	150.00
Day Students, High School	100 00
Luncheon at College	100 00
Use of laboratory and apparatus for any one course	10 00
Use of surveying instruments	10 00
Use of typewriter	10 00
Use of library	2 00
Music: piano, $80; mandolin, $50; violin, $50	
Graduation	10 00
Certificate	5 00
Condition examinations, each subject	2 00
Athletics (collected by the College for the Athletic Association)	5 00

For books and stationery, cash payment is required.

Payment for the half session of five months is required **in advance.**

Neither diploma nor certificate will be issued until a complete settlement of accounts is made.

Remittances from outside New York City are to be made by draft or by post-office order payable at Station J.

REQUIREMENTS FOR ADMISSION

The requirements for admission conform to the standards prescribed by the Regents of the University of the State of New York.

One unit represents one year's daily work in school.

1. English—The requirements in English are based on the recommendations of the National Conference on Uniform Entrance Requirements in English.

Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence and appreciation.

ENGLISH GRAMMAR AND COMPOSITION

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs, should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted efforts of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

LITERATURE

The second object is sought by means of two lists of books, headed, respectively, *Reading* and *Study,* from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and be encouraged to commit to memory some of the more notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself

with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

A, READING

The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature by giving him a first-class knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to larger freedom of choice, the books provided for reading are arranged in the following groups, from each of which at least two selections are to be made, except as otherwise provided under Group 1.

Books to Be Read: 1920

Group 1

CLASSICS IN TRANSLATION (two to be selected). The *Old Testament,* comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the *Odyssey,* with the omission, if desired, of Books 1-5, 15-17; the *Iliad,* with the omission, if desired, of Books 11, 13-15, 17, 21; the *Æneid.* The *Odyssey, Iliad and Æneid* should be read in translations of recognized literary excellence.

For any selection from this group a selection from any other group may be substituted.

Group 2

SHAKESPEARE (two to be selected). *Midsummer Night's Dream, Merchant of Venice, As You Like It, Twelfth Night, The Tempest, Romeo and Juliet, King John, Richard II, Richard III, Henry V, Coriolanus, Julius Caesar, Macbeth, Hamlet.* (The last three plays if not chosen for study under B.)

Group 3

PROSE FICTION (two to be selected). Malory's *Morte d'Arthur* (about 100 pages); Bunyan's *Pilgrim's Progress,* Part I; Swift's *Gulliver's Travels* (voyages to Lilliput and to Brobdingnag); Defoe's *Robinson Crusoe,* Part I; Goldsmith's *Vicar of Wakefield;* Frances Burney's *Evelina;* Scott's novels, any *one;* Mrs.

Gaskell's *Cranford;* Kingsley's *Westward Ho!* or *Hereward the Wake;* Reade's *The Cloister and the Hearth;* Blackmore's *Lorna Doone;* Hughes' *Tom Brown's School Days;* Stevenson's *Treasure Island,* or *Kidnapped,* or *Master of Ballantrae;* Cooper's novels, any *one;* Poe's *Tales;* Hawthorne's *House of the Seven Gables,* or *Twice Told Tales,* or *Mosses from an Old Manse;* a collection of short stories by various standard writers.

Group 4

ESSAYS, BIOGRAPHY, ETC. (two to be selected). Addison and Steele's *Sir Roger de Coverley Papers,* or selections from the *Tatler and Spectator* (about 200 pages); selections from Boswell's *Life of Johnson* (about 200 pages); Franklin's *Autobiography;* selections from Irving's *Sketch Book* (about 200 pages), or *Life of Goldsmith;* Southey's *Life of Nelson;* selections from Lamb's *Essays of Elia* (about 100 pages); selections from Lockhart's *Life of Scott* (about 200 pages); Thackeray's lectures on Swift, Addison and Steele, in the *English Humorists;* Macaulay, any one of the following essays—*Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederick the Great, Madam d'Arblay;* selections from Trevelyan's *Life of Macaulay* (about 200 pages); Ruskin's *Sesame and Lilies,* or selections (about 150 pages); Dana's *Two Years Before the Mast;* selections from Lincoln, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, the Letter to Greeley (together with a brief memoir; Parkman's *Oregon Trail;* Thoreau's *Walden;* selected essays of Lowell (about 150 pages); Holmes' *Autocrat of the Breakfast Table;* Stevenson's *An Inland Voyage* and *Travels with a Donkey;* Huxley's *Autobiography* and selections from the *Lay Sermons,* including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk; a collection of essays by Bacon, Lamb, DeQuincey, Hazlitt, Emerson, and later writers; a collection of letters by various standard writers.

Group 5

POETRY (two to be selected). Palgrave's *Golden Treasury (First Series),* Books 2 and 3, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave's *Golden Treasury*

(*First Series*), Book 4, with special attention to Wordsworth, Keats, and Shelley (if not chosen for study under B); Goldsmith's *The Traveller* and *The Deserted Village;* Pope's *The Rape of the Lock;* a collection of English and Scottish ballads; Coleridge's *The Ancient Mariner, Christabel,* and *Kubla Khan;* Byron's *Childe Harold,* Canto 3 or 4, and *The Prisoner of Chillon;* Scott's *The Lady of the Lake,* or *Marmion;* Macaulay's *Lays of Ancient Rome, The Battle of Naseby, The Armada, Ivry;* Tennyson's *The Princess,* or *Gareth and Lynette, Lancelot and Elaine,* and *The Passing of Arthur;* Browning's *Cavalier Tunes, The Lost Leader, Good News from Ghent, Home Thoughts, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa, The Italian in England, The Patriot, The Pied Piper, "De Gustibus"—, Instans Tyrannus;* Arnold's *Sohrab and Rustum* and *The Forsaken Merman;* selections from American poetry, with special attention to Poe, Longfellow, Lowell, and Whittier.

B, STUDY

This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions.

Book to Be Studied: 1920

Group 1

DRAMA (one to be selected). Shakespeare's *Julius Cæsar,* or *Macbeth,* or *Hamlet.*

Group 2

POETRY (one to be selected). Milton's *L'Allegro, Il Penseroso,* and either *Comus* or *Lycidas;* Tennyson's *The Coming of Arthur, The Holy Grail* and *The Passing of Arthur;* the selections from Wordsworth, Keats, and Shelley in Palgrave's *Golden Treasury.*

Group 3

ORATORY (one to be selected). Burke's *Speech on Conciliation with America;* Macaulay's *Speeches on Copyright,* and Lincoln's *Speech at Cooper Union;* Washington's *Farewell Address* and *Webster's First Bunker Hill Oration.*

Group 4

ESSAYS (one to be selected.) Carlyle's *Essay on Burns,* with a selection of Burns' poems; Macaulay's *Life of Johnson;* Emerson's *Essay on Manners.*

EXAMINATIONS

The examination will be divided into two parts, one of which (English 1) will be on grammar and composition, and the other (English 2) on literature.

In grammar and composition, the candidate may be asked to construe sentences, to parse individual words, and to correct mistakes in usage. The main test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books listed above under *Reading,* from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. For this purpose several subjects, perhaps eight or ten, will be indicated, from which the candidate may make his own selections.

The examination in literature will include: (1) General questions designed to test such a knowledge and appreciation of literature as may be gained by fulfilling the requirements defined under *Reading* above. The candidate will be required to submit a list of the books read in preparation for the examination, certified by the principal of the school in which he was prepared; but this list will not be made the basis of detailed questions. (2) More particular questions upon the content, form. and structure of the books prescribed for *Study,* and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage. (3 units.)

2. History.—(a) Ancient History, and events down to 814 A. D.; (b) English History, or Mediæval and Modern History; (c) American History and Civics. (2 units.)

3. Elementary Algebra.—Algebra through quadratics. The four fundamental operations, factoring, fractions, ratio, proportion, simple equations, radicals, quadratic equations, and problems involving quadratics. (1 unit.)

4. Intermediate Algebra.—Review of elementary algebra together with the following: The four fundamental operations for rational algebraic expressions, fractions, radicals, quadratic equations, simple cases of equations with two or more unknown quantities, binomial theorem with finding of 4th term, imaginaries, meaning of exponents, evolution, theory of quadratic equations, arithmetical and geometric progressions, graphic interpretation of equations. (½ unit.)

5. Plane Geometry.—The usual theorems and constructions of standard text-books. Original exercises and numerical problems. (1 unit.)

6. Solid Geometry.—The usual theorems and constructions of standard text-books. Original exercises and numerical problems. (½ unit.)

7. Plane Trigonometry.—The subject as given in standard modern text-books. (½ unit.)

8. French.—Grammar, sight translation, and composition based upon the following books:

Fraser and Squair, *Shorter French Course;* Bierman and Frank, *Conversational Reader;* Mariet, *La Tâche du Petit Pierre;* Daudet, *Neuf Contes Choisis;* Enault, *Le Chien du Capitaine;* Pattou, *Causeries en France;* Labiche, *La Grammaire;* Sarcey, *Le Siège de Paris;* Racine, *Esther;* Merimée, *Colomba.* (3 units.)

9. German.—Grammar, sight translation and composition based upon the following books:

Bagster-Collins, *First Book in German;* Hauff, *Das Kalte Herz;* Wildenbruch, *Das Edle Blut;* Ebner-Eschenbach, *Krambambuli;* Storm, *Immensee;* Baumbach, *Der Schweigersohn.* (2 units.)

10. Chemistry.—A course of at least sixty experiments made by the candidate, with note-book certified by the teacher. (1 unit.)

11. Physics.—Knowledge of the general principles of physics, and their applications. Each candidate must present a note-book containing a description of at least forty experiments which he has performed. (1 unit.)

The following will be accepted in place of French and German:

Latin.—Grammar, Allen & Greenough, or equivalent, including prosody. Cæsar, *Gallic War,* Books I-IV, Cicero, six orations. Reading at sight of a short passage of easy Latin prose. Virgil, *Æneid,* Books I-VI. Latin prose composition. (4 units.)

Greek.—Grammar, Goodwin, or equivalent, including prosody, Xenophon, *Anabasis,* Books I-III. Homer, *Iliad,* Books I-III. Greek prose composition. (3 units.)

Students presenting Latin and Greek for admission will be required to take a special course in French and German during the Freshman year and will thereafter follow the regular program.

A certificate of the Regents of the University of the State of New York, or of approved schools, will be received in lieu of the entrance examination, provided it has been issued within the year. The candidate will, however, be examined on such branches as are not included in this certificate.

Candidates for admission must present a certificate of good character.

GENERAL REGULATIONS

Examinations.—Examinations for admission are held at the College on the two days preceding the opening of each term.

The regular College term examinations are held during the last week of January and the second week of June.

In case of illness, or for some other equally grave cause, a student may have his examination postponed.

Students absent from more than ten per cent. of the recitations in any subject will not be allowed to take the examination in that subject. Students absent on the two days following the Thanksgiving, Christmas, or Summer recesses, without permission, will be charged with two absences for each recitation missed.

For students who fail in the regular examinations, condition examinations are held at the College on the two days preceding the opening of the first term, and also on the first day of the Christmas and Easter recesses. Students are required to pay two dollars for an examination in each subject in which they are conditioned.

Rating.—The final standing of each student in any subject is determined by his examination results and his class-marks in that subject. Seventy per cent. constitutes a pass in each subject. A statement of the numerical standing of the student in each subject is sent to the parent or guardian at the close of each term.

Promotion.—No student will be allowed to take up Freshman work whose conditions on entrance exceed one and one-half units.* All entrance conditions must be removed before the beginning of Sophomore year.

No student will be allowed to take up Sophomore work whose failures in Freshman work exceed one and one-half units. No student will be allowed to take up Junior work whose failures exceed one unit in the work of the two previous years. No student will be allowed to take up Senior work who has any conditions.

Studies.—The studies of the course in civil engineering are prescribed throughout. In the Arts course, Freshman and Sophomore work is prescribed, and electives are offered in the Junior and Senior years. No elective course will be given unless there is a sufficient number of applicants.

Degrees.—Every candidate for a degree is required to present a typewritten thesis on a subject connected with his course. The subject selected must be submitted for approval to the Professor of the department to which it belongs, on or before February 1. Such help and guidance may be offered the candidate as the Professor may judge right, and the completed thesis shall be handed in for approval on or before May 30.

Theses in the Arts Department shall contain not less than two thousand words, and must be typewritten on paper 13x8, with a margin of an inch and one-half. Science theses must be accompanied by the necessary

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* A unit is five recitations a week for one year in any subject. Two hours of laboratory work or two hours of drawing are equivalent to one hour's recitation.

drawing and illustrations. All approved theses become the property of the College and are placed in charge of the Librarian.

If a student fail to present his thesis, or if the thesis be rejected, he shall not be recommended for his degree.

At the discretion of the Faculty, a certificate of proficiency may be given to a student who has followed, under the direction of the Faculty, a special course of one or more subjects, and who gives evidence of satisfactory proficiency.

Honors.—Students who attain an average of ninety per cent. in all the subjects of their College course, will be graduated with *Honor*. They will be graduated with *Credit* if they attain an average of from eighty-five to ninety per cent. in all the subjects of their College course.

COURSE OF STUDY

ARTS DEPARTMENT

FRESHMAN CLASS.

FIRST TERM			SECOND TERM		
English	(4)	52, 57	English	(4)	52, 57
Public Speaking	(1)	116	Public Speaking	(1)	116
French	(3)	63	French	(3)	63
or			or		
German	(3)	69	German	(3)	69
History	(3)	74	History	(3)	75
Mathematics	(3)	90	Mathematics	(3)	89
Physics	(4)	114	Physics	(4)	114
Religion	(2)	121	Religion	(2)	121

SOPHOMORE CLASS.

FIRST TERM			SECOND TERM		
English	(4)	53, 58	English	(5)	53, 59
Public Speaking	(1)	117	Public Speaking	(1)	117
French	(3)	64	French	(3)	64
or			or		
German	(3)	70	German	(3)	70
History	(3)	77	History	(3)	77
Chemistry	(4)	12	Chemistry	(4)	13
Religion	(2)	122	Religion	(2)	122
			ELECTIVES		
Biology	(4)	5	Biology	(4)	5

The figures in parentheses indicate the number of hours a week; the others indicate the paragraphs in which the course is outlined.

ARTS DEPARTMENT

FRESHMAN CLASS.

PRE-MEDICAL.

FIRST TERM			SECOND TERM		
English	(4)	52, 57	English	(4)	52, 57
Public Speaking	(1)	116	Public Speaking	(1)	116
French	(3)	63	French	(3)	63
or			or		
German	(3)	69	German	(3)	69
Biology	(4)	3	Biology	(4)	4
Mathematics	(3)	90	Mathematics	(3)	89
Physics	(4)	114	Physics	(4)	114
Religion	(2)	121	Religion	(2)	121

SOPHOMORE CLASS.

PRE-MEDICAL.

FIRST TERM			SECOND TERM		
English	(4)	53, 58	English	(4)	53, 59
Public Speaking	(1)	117	Public Speaking	(1)	117
French	(3)	64	French	(3)	64
or			or		
German	(3)	70	German	(3)	70
Biology	(4)	5	Biology	(4)	5
Chemistry	(4)	12	Chemistry	(4)	13
Religion	(2)	122	Religion	(2)	122

JUNIOR CLASS.

FIRST TERM			SECOND TERM		
ENGLISH	(4)	54, 60	ENGLISH	(4)	55, 61
PUBLIC SPEAKING	(1)	118	PUBLIC SPEAKING	(1)	118
FRENCH or GERMAN	(3)	65 or 71	FRENCH or GERMAN	(3)	65 or 71
PHILOSOPHY	(4)	101, 102	PHILOSOPHY	(4)	106, 112
GEOLOGY	(4)	67	ASTRONOMY	(4)	1, 2
ECONOMICS	(2)	47	ECONOMICS	(2)	47
RELIGION	(2)	123	RELIGION	(2)	123

ELECTIVES.

FIRST TERM			SECOND TERM		
PEDAGOGY	(3)	97, 99	PEDAGOGY	(3)	97, 99
SPANISH	(3)	124	SPANISH	(3)	124
ITALIAN	(3)	87	ITALIAN	(3)	87
AMERICAN POLITICAL INSTITUTIONS	(1)	81	EUROPEAN CONSTITUTIONS	(1)	82
CHURCH HISTORY	(1)	86	CHURCH HISTORY	(1)	86
ORGANIC CHEMISTRY	(4)	14			

SENIOR CLASS.

FIRST TERM			SECOND TERM		
ENGLISH	(4)	56, 62	ENGLISH	(4)	56, 62
PUBLIC SPEAKING	(1)	119	PUBLIC SPEAKING	(1)	119
FRENCH or GERMAN	(2)	66 72	FRENCH or GERMAN	(2)	66 72
HISTORY OF PHILOSOPHY	(2)	113	HISTORY OF PHILOSOPHY	(2)	113
PHILOSOPHY	(4)	104, 105	PHILOSOPHY	(4)	103
PHILOSOPHY OF HISTORY	(2)	85	PHILOSOPHY OF HISTORY	(2)	85
NATURAL THEOLOGY	(2)	109	ETHICS	(2)	110, 111

ELECTIVES.

FIRST TERM			SECOND TERM		
PEDAGOGY	(3)	98	PEDAGOGY	(3)	98
BIOLOGY	(4)	3	BIOLOGY	(4)	4
SPANISH	(2)	125	SPANISH	(2)	125
ITALIAN	(2)	88	ITALIAN	(2)	88
PRINCIPLES OF GOVERNMENT	(3)	48	SOCIOLOGY	(3)	51
PUBLIC FINANCE	(2)	49	REPRESENTATIVE GOVERNMENT	(2)	50
AMERICAN HISTORY	(2)	83	AMERICAN HISTORY	(2)	84
HISTORY OF THE 19TH CENTURY	(1)	80	HISTORY OF THE 19TH CENTURY	(1)	80

CIVIL ENGINEERING DEPARTMENT

FRESHMAN CLASS.

FIRST TERM			SECOND TERM		
ENGLISH	(2)	52	ENGLISH	(2)	52
PUBLIC SPEAKING	(1)	116	PUBLIC SPEAKING	(1)	116
MATHEMATICS	(6)	90, 91	MATHEMATICS	(6)	89, 91
PHYSICS	(2)	114	PHYSICS	(2)	114
PHYSICAL LABORATORY	(2)		PHYSICAL LABORATORY	(2)	
SURVEYING	(5)	16	SURVEYING	(5)	17
DESCRIPTIVE GEOMETRY	(2)	42	DESCRIPTIVE GEOMETRY	(2)	42
DRAWING	(4)	39, 40	DRAWING	(4)	39, 40
RELIGION	(2)	121	RELIGION	(2)	121
SUMMER FIELD WORK,			THREE WEEKS,		36

SOPHOMORE CLASS.

FIRST TERM			SECOND TERM		
ENGLISH	(2)	53	ENGLISH	(2)	53
PUBLIC SPEAKING	(1)	117	PUBLIC SPEAKING	(1)	117
MATHEMATICS	(3)	92	MATHEMATICS	(4)	93
MECHANICS	(3)	94	MECHANICS	(3)	94
			MATERIALS OF CONSTRUCTION	(2)	22
CHEMISTRY	(4)	12	CHEMISTRY	(6)	13
STEREOTOMY	(3)	41	RAILROAD ENGINEERING	(2)	18
DRAWING	(3)	43	GRAPHIC STATICS	(2)	44
SURVEYING	(3)	38	STEREOTOMY	(2)	41
RELIGION	(2)	122	DRAWING	(2)	43
			RELIGION	(2)	122
SUMMER FIELD WORK,			THREE WEEKS,		37

JUNIOR CLASS.

FIRST TERM

PHILOSOPHY	(2)	100
ENGLISH	(2)	54
PUBLIC SPEAKING	(1)	118
MASONRY CONSTRUCTION	(2)	24
MECHANICS OF MATERIALS	(5)	29
HIGHWAY ENGINEERING	(2)	19
(Not given in 1920-21)		
DESIGN PROBLEMS	(3)	45a
RAILWAY TRACK AND TRACK WORK	(1)	20
(Not given in 1921-22)		
ANALYTICAL MECHANICS	(2)	95
GEOLOGY	(4)	67
RELIGION	(2)	123
CEMENT LABORATORY	(4)	25

SECOND TERM

PHILOSOPHY	(2)	100
PUBLIC SPEAKING	(1)	118
MASONRY CONSTRUCTION	(2)	21, 24
THEORY OF STRUCTURES	(3)	30
TUNNELING	(2)	26
(Not given in 1921-22)		
EXCAVATIONS	(2)	27
(Not given in 1920-21)		
DESIGN PROBLEMS	(3)	45a
METALLURGY	(2)	15
ASTRONOMY	(4)	1, 2
HYDRAULICS	(2)	33
RELIGION	(2)	123
DESIGN	(2)	45b

SENIOR CLASS.

FIRST TERM

PUBLIC SPEAKING	(1)	119
BRIDGES	(2)	31
SEWERS	(2)	28
CONCRETE, PLAIN AND REINFORCED	(3)	23
ECONOMICS	(2)	47
NATURAL THEOLOGY	(2)	109
STRUCTURAL DRAFTING	(4)	46

SECOND TERM

PUBLIC SPEAKING	(1)	119
BRIDGES	(2)	31
CONTRACTS AND SPECIFICATIONS	(1)	32
WATER SUPPLY	(2)	34
CONCRETE, PLAIN AND REINFORCED	(3)	23
STRUCTURAL DRAFTING	(4)	46
ECONOMICS	(2)	47
ETHICS	(2)	110, 111
THESIS	(4)	

PEDAGOGY

The regular College work in logic and psychology satisfies the requirements of both State and City Superintendents of Public Instruction, under whose immediate direction examinations in the history of education and in method are held. Upon completing a satisfactory examination in these subjects, the candidate receives a license to teach for three years, after which period, if successful experience can be demonstrated, the provisional license may be exchanged for a life certificate.

The main requisite is that the candidate be a graduate from a college or university recognized by the Regents of the University of the State of New York, wherein at least one year was spent in pedagogical study amounting to not less than 210 hours, with attendance upon lectures or recitations, as follows: logic or psychology, at least 90 hours; history and principles of education and methods of teaching, at least 120 hours.

The courses offered to the students in Pedagogy are:

JUNIOR YEAR.—Logic, 60 hours.
Psychology, 90 hours.
History of Education and
Principles of Education, 90 hours.

SENIOR YEAR.—Method in teaching, 60 hours.
Observation, 20 hours.

HIGHER DEGREES

Bachelors of Arts may obtain the Master's degree by pursuing an approved course of study and giving satisfactory evidence of scholarship. If such post-graduate study is not pursued in the College, the degree will not be conferred until two years after graduation.

Professional study, as such, does not entitle one to the Master's degree; but original research or special and scholarly study connected with a profession may, at the discretion of the Faculty, be accepted.

Essays, theses, and dissertations intended for the Master's degree must be presented at least one month before the end of the academic year, and must contain at least 3,000 words. The bibliography or list of works consulted must, in each case, be appended to the thesis.

If a candidate's thesis is approved, he will be informed as to the time when he will be required to meet the Board of Examiners for any further test of his qualifications which may be deemed necessary.

Bachelors of Science in Engineering may obtain the degree of Civil Engineer one year after graduation on the presentation of an approved thesis.

COURSES OF STUDY

FOR THE MASTER'S DEGREE

Master of Arts

Any one of the following courses:

1. Moral Philosophy, with written thesis, making special application of its principles to mooted questions of the day.
2. Plato or Aristotle, with the history of his influence on modern thought.
3. A comparative study of the psychology of St. Thomas Aquinas and modern psychology.
4. A comparative study of Thomistic ethical principles and current theories.
5. A critical study of Locke's influence on modern philosophy.
6. A critical study of Kantianism.
7. A critical study, with practical applications, of any *one* of the following psychologic principles as applied in teaching:

   (*a*) Interest; (*b*) Apperception; (*c*) Attention; (*d*) Personal Equation; (*e*) Imitation; (*f*) Free Will; (*g*) Character; (*h*) Humor; (*i*) Imagination.
8. A critical examination of current errors in logic, psychology, or ethics.
9. A thoro criticism of any one of the accepted texts in logic, psychology, or ethics.
10. A critical examination of any one of the accepted texts in the history of education.
11. A critical study of the growth of the novel.

12. English Literature. Critical analysis of any classic author from the Catholic standpoint.

13. French Literature, with translation at sight from any classic author, and a critical French essay on his work or his age.

14. German Literature, with translations at sight from any classic author, and a critical German essay on his work or his age.

15. Church History. Selections of important periods for research, with essays embodying results of investigation.

16. A discussion of current theories in political economy.

17. A critical examination of any one of the texts commonly accepted as standard in political economy.

18. A detailed examination with applications of the relations of political economy to ethics.

19. A critical study of Leo XIII.'s encyclicals on political, social, and economic questions.

20. Discussion of prevalent sociological theories.

21. Amplification of topics discussed by the Catholic Truth Society.

Master of Science

Any one of the following courses:

1. Higher co-ordinate geometry of two dimensions; co-ordinate geometry of three dimensions.

2. General theory of equations.

3. Higher parts of the integral calculus; differential equations; calculus of variations.

4. Rigid dynamics.

5. Fourier's theorem and its applications.
6. The wave theory treated mathematically or experimentally, or both.
7. The electromagnetic theory of light.
8. Phenomena of interference, diffraction and polarization.
9. Spectrum analysis.
10. The electronic theory of matter.
11. Conservation and dissipation of energy.
12. Application of the doctrine of energy to the phenomena of chemical combination.
13. Thermal measurement of energy.
14. Properties and phenomena of the ether.
15. Discharge of electricity through gases.
16. Recent views on electricity.
17. Higher parts of static and dynamic electricity.
18. Phenomena of alternating currents.
19. Astrophysics.
20. Special studies in civil engineering.
21. Special studies in electrical engineering.

These subjects are merely suggestive, and are intended to assist the candidate in the choice of a subject for his thesis. The treatment of the subject should be thoro and comprehensive, and should embody the result of original thought or of experimental investigation, as the case may require.

Published works of the candidate on the subject selected, articles in reviews of scientific periodicals, or contributions to the transactions of learned societies will receive due consideration from the Board of Examiners.

DEPARTMENTS OF INSTRUCTION

ASTRONOMY

1. Descriptive Astronomy.—The dimensions of the earth, its mass and motions. Phenomena depending on the axial and the orbital motion of the earth. Determination of the figure and magnitude of the earth. Kepler's laws and applications. Phenomena depending on change of place. Fundamental principles of celestial mechanics. Dimensions and configuration of the solar system. The sun and planets. Tides, eclipses, transits.

Young, *Manual of Astronomy.*

2. Practical Astronomy.—Construction, adjustment and use of the sextant, transit, spectroscope and equatorial telescope. Determination of the meridian, latitude, and local time.

BIOLOGY

3. Animal Biology.—The study by lecture and laboratory of important types of the principal phyla of the animal kingdom. The amœba, euglena, paramœcium, grantia, hydra, starfish, earthworm, crayfish, honey-bee, spider, locust, frog, and fish are studied in detail. The comparative structure of the birds and mammals, and adaptation to environment, are observed and discussed. Biologic principles and theories are treated from the historical and critical viewpoints. Emphasis is laid upon the economic importance of the more prominent species.

Osborne, *Economic Zoology.*

4. Plant Biology.—The life histories of typical species of plant life are observed and discussed in the laboratory and lectures. Principles governing the growth and development of the thallophytes, bryophytes, pteridophytes and spermatophytes are emphasized. As much of the morphology of these plants as is necessary for a proper understanding of life functions is reviewed. The algæ, fungi, moss, fern, pine, corn, and a flowering plant are studied in detail.

Hall and Bergen, *Principles of Botany.*

5. Human Anatomy and Physiology.—Lectures, illustrated with charts, models, and lantern slides. As an introduction to the study of the organs, the microscopic study of the fundamental tissues of the body is made. Blood is studied in the fresh and stained specimen. The fibrous and epithelial tissues are studied as to structure, type and location. To master the technique of histological work, slides are prepared directly by the student.

6. The Nervous System and Its Terminal Organs.—Lectures and illustrations, with charts, models, and lantern slides.

CHEMISTRY.

12. General Inorganic Chemistry.—Study of the ordinary non-metallic and metallic elements and their compounds. Includes the principles of chemical equilibrium. Laboratory work includes a series of experiments designed to illustrate the fundamental laws of chemistry and to acquaint the student with the properties of the principal elements and their compounds.

Smith, *General Chemistry for Colleges;* Smith, *Experimental Inorganic Chemistry.*

13. Qualitative Analysis.—A course, in laboratory and class room, based upon the separation and detection of the common bases and acids together with the reactions involved. Followed by the analysis of various substances, the composition of which is unknown to the students.

Baskerville & Curtman, *A Course in Qualitative Chemical Analysis.*

14. Organic Chemistry.—Fundamental definitions; Saturated Aliphatic hydrocarbons; alcohols, acids, aldehydes, ketones, amines; Unsaturated compounds; Polyatomic alcohols; Hydroxy-Acids, Optical Isomerism; Carbohydrates; Cyanogen and carbonic acid; Amino-Acids and proteins. Benzene and its homologues; Aromatic nitrogen compounds; Oxygen compounds; Dyes;

Napthalene and anthracene; The Coal-tar industry; Heterocyclic and alicyclic compounds; the structure theory.

Norris, *Organic Chemistry.*

Fisher, *Laboratory Manual of Organic Chemistry.*

15. Metallurgy of Iron and Steel.—Study of the physical and chemical properties as well as the constitution and manufacture of cast iron, wrought iron, and steel.

Stoughton, *The Metallurgy of Iron and Steel.*

CIVIL ENGINEERING

16. Land Surveying.—Theory and general principles. Adjustment and use of instruments. Leveling; grading. Chain and compass surveying. Balancing, plotting, supplying omissions, and computing areas.

Tracy, *Plane Surveying.*

17. Land Surveying.—Topographical surveying by transit and stadia. Leveling, contour lines, plotting. Triangulation. Use of plane table, planimeter and sextant. Theory and simple curves, slope staking. City, hydrographic and mining surveying.

Breed and Hosmer, *Principles and Practice of Surveying.*

18. Railroad Engineering.—Reconnaissance, preliminary, and location surveys. Simple, compound, parabolic and spiral curves. Turnouts and crossings. Computation of earth work.

Allen, *Railroad Curves and Earthwork.*

Reference books: Kurtz, *Modern Location of Standard Turnouts;* Talbot, *The Railway Transition Spiral.*

19. Highway Engineering.—Preliminary investigations. Surveying and mapping. Design, drainage, and foundations. Earth, sand-clay, gravel, and broken-stone

roads. Bituminous materials and various methods for using in roads. Penetration and mining methods. Wood block, stone block, brick, and concrete pavements. Street cleaning and snow removal. Car tracks, sidewalks, bridges.

Blanchard and Drownes, *Text-book on Highway Engineering.*

20. Railway Track and Trackwork.—Roadbed construction, Ballast, Ballasting, Ties, Tie plates, Rails, Rail renewals, Rail fastenings, Rail joints, Track-laying, Switches, Frogs, Turnouts, Crossings, Sidings, Yards, Terminals, Fences, Cattleguards, Handling and clearing snow, Bridge floors, Miscellaneous structures, Tools, Supplies, Signs, Signals, Interlocking systems, Electric railways, Organization of maintenance-of-way department, Trackwork of maintenance, Gages, Grades, Curves, Drainage, Ditching, Inspection of track, Premium system, Bridge inspection, Permanent improvements, Wrecking trains, Records, Reports, Accounts.

Tratman, *Railway Track and Trackwork.*

21. Foundations.—Bearing power of soils; foundations in rock; foundations in compressible soils; reinforcing the soil with piles. Sand, wood, steel, concrete piles; pile driving and determination of the bearing power of piles. Foundations in water; cofferdams, cylinders pneumatic caissons.

Baker, *Masonry Construction.*

22. Materials of Construction.—Stones: quarrying, working, employment. Bricks; manufacture and employment. Production and testing of lime, hydraulic lime, and cement; mortar; concrete; timber; metals; miscellaneous materials.

23. Concrete—Plain and Reinforced.—Theory, design, and construction. Proportions and strength of concrete, mixing and depositing, forms. Plain beams, flexure and design. Reinforced rectangular and "T" beams. Shear and diagonal tension. Slabs and columns. Gravity and cantilever retaining walls. Counterfort reservoir wall. Slab and buttress dam. Highway slab and girder bridges. Loft building construction. Miscellaneous structures.

Hool, *Reinforced Concrete Construction,* Vols. I. and II.

24. Masonry Structures.—Theory of the slope of earth embankments; graphical and analytical methods for determining earth-pressure as well as the thickness of retaining-walls and dams. Arches. Masonry bridges. Location of bridges, number of arches, their span and stability; location, dimension, and stability of abutments and piers, starlings, approaches, æsthetical arrangement of the different parts. Inclined and skew bridges.

Prelini, *Earth Slopes, Retaining Walls, and Dams.*

25. Cement Laboratory.—History of natural and Portland cement. Raw materials, method of manufacture, uses. Standard methods of testing. Method of chemical analysis. Interpretation of results.

Mead, *Portland Cement.*

26. Tunneling.—Timbering and lining of tunnels. Excavation of tunnels through rock and through loose and treacherous soils. Subaqueous tunnels. Open cut. Subways. Ventilation of tunnels.

Prelini, *Tunneling.*

27. Excavations.—Earthwork, excavations by hand and machine, rock excavation, hauling on horizontal and inclined roads, hoisting cableways, trench cutting, embankment constructions, dredging and dredging machines.

Prelini, *Earth and Rock Excavation.*

Prelini, *Dredges and Dredging.*

28. Sewers and Sewage Disposal.—Different sewerage systems. Amount of sewage. Run-off and storm water. Size and material of sewers. Manholes, catch basins, flushing tanks, etc. Sewage disposal by dilution. Mechanical and chemical clarification of sewage. Sewage treatment by septic tanks, contact beds, sprinkling filters, etc. Sewage disposal by irrigation.

Folwell, *Sewerage System.*

29. Mechanics of Materials.—Resistance and elasticity of materials, cantilever, simple and continuous beams, columns, torsion and shafts, stresses, resilience, tension and compression, flexture in beams, shear and torsion, true and apparent stresses, design and construction of beams in wood and steel, design of girders.

Merriman, *Mechanics of Materials.*

30. Theory of Structures.—Stresses in trusses; wheel loads and conventional systems of analysis; secondary stresses; stresses in plate girders, highway and railroad bridges, trussed towers and bents, and miscellaneous structures.

Spofford, *Theory of Structures.*

Reference books: Merriman and Jacoby, *Roofs and Bridges,* Part I.; Ketchum, *Highway Bridges.*

31. Roofs, Bridges and Buildings.—Different classes of bridges; riveted truss bridge, lattice bridge, pin-

connected bridge. Design of details for roofs and bridges, floor systems, lateral and transverse bracing. The plate girder in detail. Complete designs with estimate of cost for structure and erection. Lectures on the design of roof trusses, plate girders, and truss bridges.

Ketchum, *Structural Handbook;* Conklin, *Structural Steel Drafting and Elementary Design.*

Reference books: Merriman and Jacoby, *Roofs and Bridges,* Parts I. and III.; Ketchum, *Highway Bridges.*

32. Contracts and Specifications.—The law of contracts. General specifications; special clauses in engineering specifications. The study and draughting of complete contracts and specifications.

Johnson, *Contracts and Specifications.*

33. Hydraulics.—Flow of water through orifices and over weirs, gauging of weirs. Flow of water in canals. Formulæ for discharge of water from locks. Motion of water in pipes. System of pipes. Gauging water in rivers. Rainfall and run-off. Pumps and pumping.

Merriman, *Hydraulics.*

34. Water Supply and Irrigation.—Analysis of water. Amount of water required. Sources of supply. Gravity systems. Intakes, reservoirs, aqueducts and distributing systems. Pumping. Sedimentation. Slow sand filtration. Mechanical filtration. Ozone, hypochlorite, and other methods of purification. Water softening. Details of construction and estimate of cost. Drainage areas, rainfall, evaporation. Reservoir construction. Dams for storage. Regulators. Velocity of flow and dimensions of canals. Distributing and lateral canals.

35. Inspection Visits.—Visits to engineering works and manufacturing establishments.

36. Field Work.—Compass and transit surveys. Farm survey. Leveling, profile, grading. Triangulation. Topographical surveying with transit and stadia. Locating contours.

37. Field Work.—Reconnaissance and preliminary survey of railroad. Location of line. Profile and cross-section. Computation of earth work. About two miles of road are run, and the students make all the calculations required in the regular routine of office work.

DRAWING

39. Mechanical Drawing.—Use of instruments, geometrical problems, lettering, plans, elevations.

40. Mechanical Drawing.—Elementary projections, intersections, shades and shadows. Tinting drawings, pen-and-ink sketching.

41. Stereotomy.—Stone-cutting and its application to culverts, sewers, etc. Tracing and blue-prints.

42. Descriptive Geometry.—Demonstrations and execution of a series of plates.

Anthony and Ashley, *Descriptive Geometry.*

43. Drawing.—Plots of survey, topographical maps, contour maps, profiles.

44. Graphic Statics.—Resolution of concurrent and non-concurrent forces; determination of moments, of internal stresses, of centroids and moments of inertia Application to roofs and trusses.

Merriman and Jacoby, *Graphic Statics.*

45a. Design Problems.—Graphic solution of problems concerning the slope of embankments, earth pressure

against retaining-walls and dams; stability of retaining-walls, dams and arches. Design of a masonry bridge with plan, elevation, longitudinal and cross-sections.

45b. Design Problems.—Series of plates of graphical determinations of stresses in girders and trusses.

46. Structural Drafting.—Detailing of structural joints. Practical course in the use of structural tables. Standard details.

Design of roof trusses and fixed steel bridges. Elevated steel structures. Skeleton of steel building. Computations and working drawings are made from specifications for railroad bridges of assigned spans, and estimates of weight prepared.

Conklin, *Structural Steel Drafting and Elementary Design;*

Ketchum, *Structural Handbook;*

Smolley, *Parallel Tables of Logarithms and Squares;*

Smolley, *Parallel Tables of Slopes and Rises.*

Reference Books—Merriman and Jacoby, *Roofs and Bridges, Parts I and III;* Ketchum, *Highway Bridges.*

ECONOMICS, SOCIAL AND POLITICAL SCIENCE

47. Economics.—Principles of production, distribution, exchange, money, banking, international trade-relation of labor and capital, present organization of industry, currency legislation of the United States. Economic history of England and America.

Seager, *Economics, Briefer Course.*

48. Principles of Government.—Legislation, the judiciary, the executive, suffrage, and finance.

Wilson, *The State.*

49. Public Finance.—Sources of state income. Development, classification, incidents and effects of principal taxes.

Adam's *Science of Finance.*

50. Representative Government in the United States and other countries.

51. Sociology.—Psychology of social types. Historical aspects of social organization, both ancient and modern. Study of modern social problems.

ENGLISH

52. English Composition.—The principles of composition; the structure of the paragraph and the sentence; the forms of prose composition. Versification. Two short themes weekly; ten long themes. Assigned reading.

Baldwin, *Composition: Oral and Written.*

53. English Composition.—Advanced work in the forms of prose composition and in the study of prose diction. Versification. Analysis of illustrative selections. Two short themes weekly; ten long themes. Assigned reading.

Baldwin, *A College Manual of Rhetoric.*

54. Advanced Argumentation.—The principles of argumentation; analysis of arguments; study of the rules and tests of evidence; theory and practice of brief-drawing. One argumentative essay of considerable length developed from formal brief.

Pattee, *Practical Argumentation.*

55. American Literature.—An intensive study of American literature from the Colonial period to the

present time. Special stress on the poetry and prose of the nineteenth century, and on the Catholic writers of America. Assigned readings and reports.

Christian Brothers, *English Literature.*

56. Literary Criticism.—A study of the fundamental principles of literature and style; practice in construction; reports on assigned readings; applications of the principles of literary criticism to English and American authors.

Winchester, *Principles of Literary Criticism.*

57. History of English Literature.—An outline course in the history of English and American literature, accompanied by a study of masterpieces illustrating the several literary periods.

Christian Brothers, *English Literature.*

For reading and study: *The Prologue to the Canterbury Tales, Richard III., Twelfth Night, Pilgrim's Progress, The Rape of the Lock,* Addison's Essays, *Childe Harold,* Canto IV., *The Idylls of the King, The Second Spring, Kenilworth, Fabiola, The Marble Faun,* selections from American poetry.

58. The Drama.—The development of the drama in England, with special emphasis upon the Elizabethan drama. The following plays are read and discussed: *Everyman, Edward II., A Midsummer Night's Dream, Richard II., Hamlet, The Tempest, The Alchemist,* and *The Rivals.*

59. English Literature of the Seventeenth and Eighteenth Centuries.—An outline history of the literary movements from the rise of Puritanism to the open-

ing of the nineteenth century. Study of selected works of Milton, Pope, Addison, Goldsmith and Burke. Considerable matter assigned for private reading. Lectures, recitations, and reports.

60. English Poetry of the Nineteenth Century.—Wordsworth and his contemporaries; Tennyson, Browning, and the Victorian era; American poetry. The literary history of the period is outlined by lecture. Considerable poetry is assigned for private reading.

Brother Azarias, *Books and Reading.*

Ward, *English Poets,* Vol. IV.

61. English Prose of the Nineteenth Century.—The essayists; the development of the novel in the nineteenth century. Lectures; discussions; themes; assigned readings.

Brother Azarias, *Books and Reading.*

For reading and study: Selected essays of Newman, Lamb, DeQuincey, Carlyle, and Emerson. *David Copperfield, The Mill on the Floss, Diana of the Crossways, Callista, Lorna Doone.*

62. Philosophy of Literature.—Origin and function of literature; influencing agencies in literature; characteristics of ancient and modern literature. The literary artist.

Brother Azarias, *Philosophy of Literature.*

FRENCH

63. Intermediate.—Review of grammar; practice in speaking and writing French.

Fraser and Squair, *French Grammar;* Newson, *French Daily Life;* Bazin, *Les Oberlé;* Dumas, *La Question d'Argent;* Hugo, *Ruy Blas;* Chateaubriand, *Extraits.*

64. Advanced.—Practice in speaking and writing French.

Mansion, *French Composition;* France, *Le Livre de mon Ami;* Lamartine, *Meditations;* Coppée, *Le Luthier de Créme, Le Tresor;* Verne, *Michel Strogoff.*

65. Seventeenth Century.—Prose and classic drama. Bossuet, *Choix de Sermons et d'Oraisons;* Corneille, *Cinna, Le Cid;* Molière, *La Misanthrope;* La Fontaine, *Fables;* Racine, *Andromaque.*

66. The History of French Literature.—The outlines of French literature. Lectures, assigned readings chiefly from authors of the eighteenth and nineteenth centuries.

Doumic, *Histoire de la Littérature Française.*

GEOLOGY

67. General Geology.—Lectures and recitations. The following topics are discussed: Origin of the earth external and internal processes and the land produced by them; organisms as rock makers; a brief history of the earth, organic and inorganic.

Scott, *Introduction to Geology.*

GERMAN

69. Intermediate.—Review of grammar; reading; oral and aural practice.

Thomas, *German Grammar;* Boezinger, *Zwietes Aufsatzbuch;* Gore, *German Science Reader;* Schiller, *Wilhelm Tell;* Goethe, *Hermann and Dorothea.*

70. Advanced.—Oral and aural practice reading; prose composition; syntax.

Freytag, *Karl der Grosse;* Suderman, *Teja;* Heine, selections; Lessing, *Minna von Barnhelm;* Schiller, *Die Jungfrau von Orleans.*

71. The German Drama.—The classic drama; the romantic school; modern German drama. Essays in German. Oral and aural practice.

The following plays will be studied in class: Lessing, *Nathan de Weise;* Goethe, *Iphigenie;* Schiller, *Maria Stuart;* Grillparzer, *Der Traum ein Leben;* Fulda, *Unter vier Augen.*

72. The History of German Literature.—Outlines of the history of German literature. Lecture and discussions. Essays in German. Reading assigned by the instructor.

Stroebe and Whitney, *Geschichte aus der deutschen Literatur;* Thomas, *German Anthology.*

HISTORY

74. Ancient History.—History of Greece, with special reference to its literature, politics and commerce.

75. Ancient History.—Rome, from the founding of the City to the fall of the Western Roman Empire, with special reference to literature, politics and commerce.

76. Medieval History.—From the fall of the Western to the fall of the Eastern Roman Empire. The Holy Roman Empire and the Papacy receive special attention.

77. Modern History.—The principal subjects studied are the revival of learning, the age of discovery, the Reformation, in England, France and Germany, the Thirty Years' War, the age of Louis XIV., the French Revolution, the nineteenth century.

80. The History of the Nineteenth Century.—This course treats principally of the restoration of the Bourbons, the Revolutions of 1830 and 1848, the Austro-Prussian war, the Franco-Prussian war, the unification of Germany and Italy.

81. American Political Institutions.—Nature of state and national systems; organization and powers of legislative, executive, and judicial departments of Federal Government.

82. European Constitutions.—Political institutions of England and Switzerland as compared with those of the United States.

83. Constitutional History of the United States.—Colonial governments, the confederation, the federal constitution, national vs. state sovereignty.

84. Constitutional History of the United States.—War of 1812, federal judiciary, nullification act, state constitutions, the Civil War.

85. The Philosophy of History, based principally on the works of Balmes, Schlegel and Allies.

86. Church History.—From the founding of the Church to the Protestant Reformation, based on the works of Allies, Montalembert, Mann, Janssen, and Pastor. Illustrated lectures including the history and geography of the Holy Land.

ITALIAN

87. Elementary Course.—Grammar, composition, reading.

Marinoni, *Italian Grammar and Italian Reader;* De Amicis, *Cuore;* Manzoni, *I Promessi Sposi.*

88. Dante.—
The *Vita Nuova;* the *Divina Commedia.*

MATHEMATICS

89. Algebra.— Advanced algebra.
Hawkes, *Advanced Algebra.*

90. Trigonometry.—Plane and spherical.
Wentworth-Smith, *Plane and Spherical Trigonometry.*

91. Analytical Geometry.—General equation of the second degree; straight line, plane, surfaces of revolution.
Nichols, *Analytical Geometry.*

92. Calculus.—Differential and integral, with application to geometry, mechanics, engineering, and physics.
Osborne, *Differential and Integral Calculus.*

93. Slide Rules.—Theory of slide rule construction. Practical training in the use of engineering slide rules.

MECHANICS

94. Mechanics.—Principles of statics and dynamics.
Maurer, *Technical Mechanics,* Part I.

95. Analytical Mechanics.—Statics of concurrent and parallel forces, theory of couples, friction, mass-moments. Theorems of Guldinus. Work and energy. Impulsive forces. Angular velocity and acceleration. Simple harmonic motion. Centroids of surfaces and solids. Moments of inertia, with application to engineering problems. The conical and the ordinary pendulum. Pressure due to gravitating liquids, center of pressure, equilibrium of floating bodies.
Bowser, *Analytical Mechanics.*
Bowser, *Hydromechanics.*

PEDAGOGY

97. Principles of Education.—The educative process. The physical, mental, and moral laws upon which education is based. Aims and ideals of Catholic education. The teacher and his qualification. School organization, hygiene and discipline. Aids to teaching.

Thorndike, *The Principles of Teaching;* Ruediger, *Principles of Education;* Shields, *The Psychology of Education;* Bagley and Colvin, *Human Behavior;* Horne, *Psychological Principles of Education.*

98. Methods in Teaching.—Meaning of instruction and its relation to education. The psychologic and logical views of knowledge. The psychologic basis of method. Its general principles. The function of the recitation. The conduct of the recitation.

Collar and Crook, *School Management and Methods of instruction;* Brothers of the Christian Schools, *Elements of Practical Pedagogy;* Strayer, *Brief Course in the Teaching Process;* Freeman, *The Psychology of the Common Branches.*

99. History of Education.—Study of the educational thought and practice of the ancient nations; Early Christian education; medieval education; scholasticism; the universities. Influence of the Renaissance and the Reformation on educational ideas. The religious orders. Realism; naturalism; the psychologists; the sociological movement. Rise of modern school systems. Problems of present-day education.

McCormick, *History of Education;* Graves, *A History of Education;* Monroe, *Text-book in the History of Education.*

PHILOSOPHY

100. Introduction to Philosophy.—A general view of the field of philosophy; its principal problems. The more important philosophical systems.

Dubray, *Introductory Philosophy.*

101. Formal Logic.—The idea. Errors as to the nature of ideas in modern English and German philosophy. Definition. Division. The nature of judgment. The value of the syllogism.

Turner, *Lessons in Logic;* Brothers of the Christian Schools, *Elementary Course in Philosophy.*

102. Method.—General principles. Special methods. Deduction and induction. Methods of observation. Methods of explanation.

Jevons, *Lessons in Logic;* Brothers of the Christian Schools, *Elementary Course in Philosophy.*

103. Epistemology.—The possibility of certainty. Scepticism. Veracity of the senses and the intellect. Idealism vs. Realism. Universals. Authority and belief. Critical examinations of various theories of knowledge.

Poland, *The Truth of Thought.* Rickaby, *First Principles of Knowledge.*

104. Metaphysics.—The Aristotelian transcendentals. Reality of substances. Causation. Errors concerning causation. Final causes.

Brothers of the Christian Schools, *Christian Philosophy.*

105. Cosmic Philosophy.—Nature, origin, and duration of the universe. Ultimate constituents of bodies. Theory of matter and form. Laws of nature. Possibility of miracles. The concepts of natural science and scholastic philosophy.

Brothers of the Christian Schools, *Christian Philosophy.*

106. Psychology.—Rational vs. experimental psychology; value of each. Faculty, habit and action. The life principle. Vegetative Life. Theory of sensation. Qualities of sensation. Intellection. Attention. Apperception. Association of Ideas. Evolutionism. Heredity. Freedom of will. Spirituality and immortality of the soul.

Maher, *Psychology.*

107. The Psychology of Education.—A study of mental development. The psychological basis of education and of methods of teaching. Refutation of prevalent errors in educational psychology.

109. Natural Theology.—Proof of God's existence and providence—Deism, pantheism, agnosticism, atheism. Existence of evil. Preservation of creatures. Divine concurrence.

Brothers of the Christian Schools, *Cours de Philosophie.*

110. General Ethics.—Nature of a human act. Ultimate end of human actions. Determinants of morality. Does the end justify the means? Hindrances to the perfection of a human act. The passions, habit, virtue, vice.

Brothers of the Christian Schools, *Cours de Philosophie.*

111. Special Ethics.—Man's rights and duties as an individual. Man's duties to God—Adoration, love, obedience. Man's duties to his neighbor as regards soul and body. Man's duties to himself as to soul and body. Suicide and duelling.

Man's rights and duties as citizen. The state. Its constituent elements. Its origin, end, scope, and limits.

Common law of nations. Peaceful relations among nations.

Ecclesiastical society. The Church—Its origin and constitution. Its ends and limits. Its superiority to the state. Its mission to the modern world.

Brothers of the Christian Schools, *Cours de Philosophie.*

112. Experimental Psychology.—Elements and general methods. Elements of mental life; sensation, feeling, conation. Experiments on the outer senses and on the association of ideas, with special application to pedagogy.

Seashore, *Elementary Experiments in Psychology.*

113. History of Philosophy.—Principles of the great founders of Ancient Schools; their vitality as illustrated in modern views. History of medieval philosophy. History of modern philosophy. The Neo-Scholastic movement.

Turner, *History of Philosophy.*

PHYSICS

114. General Physics.—Theory and problems covering precision of measurements, mechanics, light, heat, sound, electricity and magnetism. Presupposes a knowledge of elementary physics.

Carhart, *College Physics.*

115. Physical Laboratory.—The experiments offered comprise such subjects as theory and methods of physical measurement; force, work, power efficiency of machines, linear and angular motion, moment of inertia,

elasticity, specific gravity; study of lenses and mirrors with special attention to the use of the spectrometer and the diffraction grating in measuring wave lengths of light and indices of refraction, photometry; expansion, calorimetry, vapor tension; velocity of sound in air and in metals, wave motion, vibration of strings and wires; in electricity and magnetism a special series of experiments to give a thorough grounding in electrical measurements, experiments involving a study of dynamos and motors.

Miller, *Laboratory Physics.*

PUBLIC SPEAKING

116. Oral Interpretation.—A study of the elements of vocal expression. Correctness and distinctness of utterance. The study and delivery of selections and short original speeches.

Winans, *Public Speaking.*

117. Oral Interpretation.—A study of the principles of attention, emotion, gesture. Delivery of selections and original speeches.

Winans, *Public Speaking.*

118. Argumentative Oratory.—Principles of persuasion and belief. Methods of delivery. Delivery of selections and original orations.

Winans, *Public Speaking.*

119. Public Address.—Delivery of original compositions.

RELIGION

121. Dogma.—Explanation of the principal dogmas, with special insistence on the continuity of the Church. The Church and science. Objections. History of the Old Testament.

Christian Brothers' *Manual of Christian Doctrine,* Part I.

122. Moral.—Explanation of the fundamental principles of Christian morality as contained in the decalogue. History of the New Testament.

Christian Brothers' *Manual of Christian Doctrine,* Part II.

123. Worship.—Grace, prayer, and the sacraments, with special references to the Council of Trent and the tenets of Protestantism. History of the Church.

Christian Brothers' *Manual of Christian Doctrine,* Part III.

SPANISH

124. Elementary.—Grammar, reading, composition. De Vitis, *Spanish Grammar;* Worman, *New First Spanish Book;* Hills, *Spanish Tales for Beginners;* Valera, *El Pájaro Verde;* Waxman, *A Trip to South America.*

125. Intermediate.—Reading, conversation, composition.

Alarcon, *Novelas Cortas;* Nelson, *The Spanish American Reader;* Cervantes, *Don Quixote;* Remy, *Spanish Composition.*

126. Advanced.—Composition, conversation. Calderon, *El Principe Constante; La Vida es Sueno;* Lope de Vega, *La Estrella de Sevilla.*

MANHATTAN COLLEGE HIGH SCHOOL

The aim of the High School is to prepare for admission to college. The studies conform to the *Syllabus for Secondary Schools* of the New York State Education Department.

The requirements for admission are the preliminary studies prescribed by the Education Department. The most favorable time for entrance is at the beginning of the scholastic year. The regular examinations for admission take place on the two days immediately preceding each term.

The classes are frequently examined, and students are not allowed to pass from one subject to another until they have given evidence of adequate knowledge of the subject. A student who shows by the results of the examinations that he is unable to keep up with his class will be placed in a lower grade.

The Inspector examines weekly the record of every pupil, and comments upon it before the professors and students of the class.

Summarized reports of the examinations are forwarded to the parents at the end of each quarter.

Since each report shows the exact standing of the student, it should be carefully examined by his parent or guardian.

Percentages are rated as follows: From 90 to 100, excellent; from 80 to 90, very good; from 70 to 80, good, under 60, unsatisfactory.

Promotions are based on the joint results of the quarterly examinations and the daily marks. No student will be promoted unless he attains an average of at least 60 per cent. in each subject, and a general average of 70 per cent.

Students who fail to get the average required in any subject may present themselves for examination on the two days immediately preceding the reopening in September. A fee of one dollar is required for each subject examined.

At least three hours a day should be given to the preparation of class work.

The active co-operation of parents with the faculty is essential to the progress of the student. Parents are therefore requested to insist upon regular attendance and careful preparation of class work.

Punctuality at all sessions and recitations is required.

In all cases of absence a written excuse from parents or guardian is required. This excuse will not be accepted in lieu of omitted class work.

Wednesday and Saturday afternoons are the regular weekly half-holidays.

Students who live in the College may not leave the ground without authorization.

COMMERCIAL DEPARTMENT

Students who desire to prepare for mercantile life will find every facility in the Commercial Department. This department comprises two years' work, and no student is admitted until he has satisfactorily completed the studies of the *second year* of high school.

The students receive a thorough course in standard business methods and in the science of accounts. A complete course in commercial arithmetic is given, and ample opportunity is afforded for the practice of shorthand and typewriting.

The Commercial course does not, however, confine its work to purely business branches. Subjects of general culture are also included. English composition and letter-writing receive special attention. The student is required to treat prescribed subjects in a manner that will enable him to write with ease and elegance. Questions relating to political economy and commercial law are discussed in the class-room in order to give the student correct ideas on the vital questions of daily life. Weekly lessons are given in the art of public speaking, in order that the student may acquire an easy and graceful delivery.

Students who complete the Commercial course receive a certificate as a guarantee of their fitness for mercantile employment.

COURSE OF STUDY—HIGH SCHOOL

FIRST YEAR

ENGLISH. (4)—Hanson, *A Two Years' Course in English Composition.*
Coleridge. *The Ancient Mariner;* Macaulay, *Ballads;* Cooper, *The Pilot;* Dana, *Two Years Before the Mast;* Shakespeare, *As You Like It.*

PUBLIC SPEAKING. (1)—Houghton, *Public Speaking.*

ALGEBRA. (5)—Through Quadratics.
Slaught & Lennes, *Elementary Algebra.*

FRENCH. (5)—Fraser and Squair, *Shorter French Course;* Bierman and Frank, *Conversational Reader.*

BIOLOGY. (5)—Smallwood, *Elementary Biology.*

DRAWING. (2)—La Salle Series, Book VII., *Elementary Design.*

CIVICS. (2)

RELIGION. (2)—Christian Brothers' Series, No. 4. *Dogma.*

SECOND YEAR

ENGLISH. (4)—Hanson, *Two Years Course in English Composition;* Irving, *Life of Goldsmith;* Shakespeare, *Merchant of Venice;* Goldsmith, *The Deserted Village;* Gray, *Elegy;* Dickens, *A Tale of Two Cities;* Goldsmith, *The Vicar of Wakefield.*

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* Figures in parentheses indicate the number of recitations a week.

PUBLIC SPEAKING. (1)—Houghton, *Public Speaking.*

PLANE GEOMETRY. (5)—Wentworth & Smith, *Plane Geometry.*

FRENCH. (5)—Fraser and Squair, *Shorter French Course;* Bierman and Frank, *Conversational Reader;* Labiche et Martin, *La Poudre aux Yeux;* Mairet, *La Tâche du Petit Pierre.*

SPANISH. (5)—Fuentes & François, *Practical Spanish Grammar;* Worman, *New Spanish Book.*

ANCIENT HISTORY. (3)—West, *Ancient World.*

DRAWING. (2)—La Salle Series, Book VIII., *Elementary Representation.*

RELIGION. (2)—Christian Brothers' Series, No. 4. *Moral.*

THIRD YEAR

ENGLISH. (4)—Genung & Hanson, *Outlines of Composition and Rhetoric;* Tennyson, *Idylls of the King;* Hawthorne, *The House of the Seven Gables;* Ruskin, *Sesame and Lilies;* Shakespeare, *Julius Caesar;* Lincoln, *Selections.*

PUBLIC SPEAKING. (1)—Houghton, *Public Speaking.*

SOLID GEOMETRY (First Term). (4)—Wentworth & Smith, *Solid Geometry.*

INTERMEDIATE ALGEBRA (Second Term). (4)—Hawkes, Luby & Touton, *A Second Course in Algebra.*

FRENCH. (5)—Fraser and Squair, *Shorter French Course;* Enault, *Le Chien du Capitaine;* Labiche, *La Grammaire;* Pattou, *Causeries en France;* François, *Neuf Contes Choisis.*

SPANISH. (5)—See page 52.

PHYSICS. (5)—Carhart and Chute, *Physics, with Applications and Laboratory Manual.*

DRAWING. (1)—La Salle Series, Book VIII, *Representation.*

RELIGION. (2)—Christian Brothers' Series, No. 4. *Worship.*

FOURTH YEAR

ENGLISH. (4)—Genung & Hanson, *Outlines of Composition and Rhetoric;* Milton, *L'Allegro, Il Penseroso, Comus;* Burke, *Speech on Conciliation with America;* Washington, *Farewell Address* and Webster, *First Bunker Hill Oration;* Macaulay, *Life of Johnson;* Shakespeare, *Macbeth.*

PUBLIC SPEAKING. (1)—Houghton, *Public Speaking.*

TRIGONOMETRY. (3)—Wentworth-Smith, *Plane and Spherical Trigonometry.*

SPANISH. (5)—See page 52.

AMERICAN HISTORY AND CIVICS. (5)—Hart, *New American History;* Boynton, *School Civics.*

CHEMISTRY. (5)—McPherson and Henderson, *First Course in Chemistry, with Laboratory Exercises.*

DRAWING. (1)—La Salle Series, Book VIII, *Representation.*

RELIGION. (2)—Christian Brothers' Series, No. 4. Complete.

COMMERCIAL COURSE

For First and Second Years see pages 56 *and* 57.

THIRD YEAR

ENGLISH (3)—See English, p. 57.

PUBLIC SPEAKING. (1)—Houghton, *Public Speaking.*

CIVICS. (2)—**Boynton,** *School Civics.*

COMMERCIAL LAW. (3)—Richardson, *Commercial Law.*

FRENCH. (5)—See French, p. 58.

or

SPANISH. (5)—See Spanish, p. 52.

SHORTHAND. (5)—I. Pitman, *Course in Shorthand;* Hammond, *Pitman's Progressive Dictator.*

TYPEWRITING. (2)—Smith, *A Practical Course in Touch Typewriting.*

COMMERCIAL ARITHMETIC. (4)—Moore and Miner, *Practical Business Arithmetic.*

RELIGION. (2)—See Religion, p. 58.

FOURTH YEAR

PUBLIC SPEAKING. (1)—Houghton, *Public Speaking.*

ENGLISH. (3)—See English, p. 58.

POLITICAL ECONOMY. (3)—O'Hara, *Introduction to Economics.*

SPANISH. (5)—See Spanish, p. 52.

SHORTHAND AND TYPEWRITING. (6)—I. Pitman, *Course in Shorthand;* Hammond, *Pitman's Progressive Dictator.*

BOOKKEEPING. (5)—Montgomery *Bookkeeping and Business Practice.*

RELIGION. (2)—See Religion, p. 59.

PRIZES AND MEDALS

COLLEGE

1. A purse of $50 is awarded by the Alumni Society to the best English essayist of the graduating class. The prize contest consists of two essays, one prepared and the other extemporaneous. The subject of the first is announced at the beginning of the month of October, and the essay must be presented not later than the second Tuesday of April. The subject of the second is announced when the candidates are assembled to write the essay.

2. The Milmo-McGowan Medal for religious instruction was founded by Mrs. B. McGowan, in memory of her son, Mr. Michael J. McGowan, '69. This medal is awarded on competitive examination on the subject matter of the four years' course in Christian doctrine and church history. The examination takes place at the end of May.

3. The Kelly Medal for philosophy, offered to the students of the Senior Class, was founded by the late Mr. Eugene Kelly, of New York City. This medal is awarded for proficiency in logic, metaphysics, and psychology.

4. The Grady Memorial Medal for oratory was founded by the Alumni Society in memory of Rev. John M. Grady, '69. The contest for this medal is open to all College students.

5. The Brennan Medal for Philosophy of History is awarded to the student of the Senior Class who obtains the highest average on this subject. The donor of this medal is the The Hon John F. Brennan, LL.D., '75.

In all cases in which "record" determines the award, failure in a regular examination eliminates the candidate.

6. The Medal for Pedagogy is awarded to the student who obtains the highest average in this subject during Junior and Senior Years.

7. The Cohalan Medal for civil engineering, the gift of Hon. Daniel F. Cohalan, LL.D., '85, in memory of his father, is awarded to the Senior student who has the highest record for the year in the civil engineering course.

8. The Develin Medal for French, founded by Mr. Charles E. Miller, of New York City, in honor of his friend, Mr. John E. Develin, is awarded by competitive examination on the matter of the four years' College course.

9. The Radford Medal for Natural Science is offered by the Alpha Beta Sigma to the student who has the highest average in Natural Science during his College course.

HIGH SCHOOL

1. The Medal for Elocution is awarded by competition among the students of the High School Department.

2. The Medal for Excellence is awarded to the pupil who has the highest general average for the fourth year of the High School course.

3. The Brother Charles Memorial Medal, donated by the Commercial Alumni Society, is awarded to the student of the Commercial Department who has the highest record for proficiency throughout the course.

4. The Kean Medal for Christian doctrine, founded by the late Rt. Rev. Mgr. John J. Kean, LL.D., '66, is open to all students of the High School Department.

5. The Pommerer Medal, donated by William C. Pommerer, M.A., '91, is awarded to the student of the graduating class, who passes the best examination in shorthand and typewriting.

COLLEGE SOCIETIES

THE APOSTLESHIP OF PRAYER
and
LEAGUE OF THE SACRED HEART

The Apostleship of Prayer and League of the Sacred Heart is established in the College and High School departments to foster among the students the spirit of piety, to enable them to acquire more thoroughly the spirit of Christianity, and to kindle in them zeal for works of reparation towards our Divine Lord.

The Communion of Reparation is made every first Friday, and the morning offering and daily "decade" form a part of the regular class exercises. Devotions in honor of the Sacred Heart are held in the College chapel on the first Friday of each month.

THE ARCHCONFRATERNITY OF THE HOLY CHILD JESUS

This Archconfraternity has been erected in the chapel of the Brothers of the Christian Schools at Bethlehem. To it belong pupils of the Brothers' schools throughout the world. Its end is to obtain from Heaven through the Divine Child Jesus: 1st, That God may have the first place in all the studies in educational establishments; 2nd, that teacher and pupils may be everywhere free to observe the laws of Holy Church without any restraint whatever; 3rd, that Catholic children may not be exposed to lose their faith in schools where God is not recognized. The Archconfraternity publishes a quarterly review entitled, *Little Messenger of the Divine Infant.*

MANHATTAN COLLEGE ALUMNI SOCIETY

The object of the Society is to keep alive among the Alumni a sentiment of affection for their Alma Mater, and to unite the graduates of successive years by a common tie of fellowship.

There are three reunions of the Society each year; at the Alumni dinner, at the Memorial Mass on Decoration day, and at the reception of the newly graduated class on Commencement day.

OFFICERS.

President.....JAMES E. KIFFIN, '99
First Vice-President.....JOSEPH A. DILLON, M.D., '87
Second Vice-President.....JOHN F. COUCH, '85
Third Vice-President.....REV. EDWIN M. SINNOTT, '01
Secretary.....JOHN T. STACK, '10
Treasurer .....REV. BRYAN J. MCENTEGART, '13
Historian.....BROTHER JASPER, '11

COMMERCIAL ALUMNI SOCIETY

The Manhattan Commercial Alumni Association was organized September 5, 1901. *Two meetings* are held *yearly.*

OFFICERS.

President.....DANIEL C. BECKINGHAM, '02
First Vice-President.....JAMES F. KELLY, '05
Second Vice-President...CHRISTOPHER M. LEONARD, '10
Secretary.....AMOS P. SILKWORTH, '13
Treasurer.....JAMES A. SMYTH, '08
Historian.....BERNARD J. KEARNEY, '08

DE LA SALLE LITERARY SOCIETY

This Society is confined to the students of the Senior year. The end proposed is the free discussion of questions pertaining to philosophy, which have been suggested, but not fully treated in the class-room. The Professor of Philosophy acts as Moderator.

Officers.

President.....Mortimer M. Cassidy
Vice-President.....Francis J. Zivi
Secretary.....Philip J. Cruise
Treasurer.....Lawrence F. Keane
Historian.....John C. Talty

NEWMAN LITERARY SOCIETY

The members of the Junior Class form this Society. The exercises, consisting of original essays and debates on literary or other subjects, are held weekly. The Professor of English Literature acts as Moderator.

Officers.

President.....James I. Costello
Vice-President.....George J. Hayes
Secretary.....Gustavo J. Lima
Treasurer.....William Shierson
Critic.....John Fryer

HUGHES LITERARY SOCIETY

This Society consists of the students of the Sophomore year. Meetings are held twice a month, the principal exercises of which are debates on historical and scientific subjects, and on questions of the day, as well as essays on various topics. The senior Professor of the class is Moderator of the Society.

OFFICERS.

President.....JOHN J. QUINN
Vice-President.....PAUL MAHONEY
Secretary.....ALBERT SCULLY
Treasurer.....JAMES ROBILOTTI
Critic.....GEORGE W. ABBOTT

McCLOSKEY LITERARY SOCIETY

This Society, composed of the members of the Freshman Class, holds its regular meeting every week. The exercises consist principally of debates on various subjects and essays on literary and historical topics. The Professor of English literature is Moderator of the Society.

OFFICERS.

President.....PAUL BRENNAN
Vice-President.....RICHARD MCGUINNES
Secretary.....JOHN A. V. MURPHY
Treasurer.....FRANK E. CAHILL

HAYES LITERARY SOCIETY

The students of the Fourth Year High School have formed a literary society, which they have named after the Rt. Rev. Patrick J. Hayes, '88, Auxiliary-Bishop of New York. They hold regular weekly meetings, and sometimes class exercises, to which the College students are invited. The senior Professor of the class acts as Moderator.

Officers.

President.....Edward D. Dowling, Jr.
Vice-President.....Richard Hennessy
Secretary-Treasurer.....Edward J. Hand
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FARLEY LITERARY SOCIETY

This Society is composed of the Senior students of the Third Year High School. Literary exercises and discussions of questions pertaining to business and commerce constitute the program for the weekly meetings. The Principal of the Department acts as Moderator.

Officers.

President.....Francis Sullivan
Secretary.....Joseph O'Brien
Vice-President .....Thomas Dunne
Treasurer.....John Robinson

THE MANHATTAN COLLEGE ENGINEERING SOCIETY

Membership in this Society is limited to students of engineering in the Junior and the Senior classes. Meetings are held bi-weekly, at which papers are read by students and discussed by students and instructors.

OFFICERS.

President.....LAWRENCE F. KEANE, '20
Vice-President.....WILLIAM SHIERSON
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THE NEWS-LETTER

The *News-Letter* was founded in 1900, mainly thru the energy of Dr. José M. Ferrer, '76, and the generosity of members of the Alumni Society. It is published monthly from October to June. The chief object of the publication is to give College news, and also items of interest concerning graduates of the various departments.

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SIXTY-SIXTH ANNUAL

COMMENCEMENT

OF

MANHATTAN COLLEGE

The Most Rev. Archbishop P. J. Hayes, D. D., '88
Presiding

CARNEGIE MUSIC HALL

Thursday, June nineteenth, nineteen-nineteen

Order of Exercises

MARCH PROCESSIONAL—Coronation - *Meyerbeer*

OVERTURE—Morning, Noon and Night - *Suppe*
ORCHESTRA

THE CURE FOR BOLSHEVISM **Leo C. Fennelly**

VOCAL QUARTET—Americans Come - - *Foster*
MANHATTAN ALUMNI QUARTET

AMERICANISM AND SOCIAL REFORM
John P. Sweeney

SELECTION—Irish Melodies - - - - - - *White*
ORCHESTRA

VOCAL QUARTET—Killarney - - - - - *Balfe*
MANHATTAN ALUMNI QUARTET

Conferring of Degrees

Awarding of Prizes

Address to the Graduates

HON. WM. J. KELLY, Justice of the Appellate Division

Honorary Degree of Doctor of Laws

RT. REV. MONS. EDWARD J. MCGOLRICK, A.B., A.M., '77
HIS EXCELLENCY, GOVERNOR ALFRED E. SMITH
THE HONORABLE JUSTICE WILLIAM J. KELLY

Honorary Degree of Master of Arts

GEORGE J. CORBETT, LL.B., ex-'02

Honorary Degree of Master of Science

THOMAS JOHN MORRISON

Degree of Civil Engineer

DENIS CECIL QUINN, '18
ROBERT J. STIMPFLE, '12
FRED HENRY ZURMUHLEN, '18

Degree of Bachelor of Arts

JOHN PAUL SWEENEY, *with honor*
JOHN JOSEPH FOGARTY, *with credit*
EDWARD PATRICK WINTERS, *with credit*
LEO COLUMBA FENNELLY
JOSEPH FRANCIS HOLLAND
JAMES ALOYSIUS POWERS
JOHN JOSEPH SWEENEY
WILLIAM JOSEPH WILKINSON

Degree of Bachelor of Science

ROBERT JOSEPH FITZGERALD

Degree of Bachelor of Science in Civil Engineering

EDWARD FRANCIS JOYCE, *with honor*
RAYMOND JOHN BOLAND, *with credit*
THOMAS FRANCIS COLEMAN, *with credit*
GEORGE CUNNINGHAM SHANNON, *with credit.*
FARRELL DANIEL COYLE
MARTIN ALOYSIUS FULLAM
URSINUS ZACHARY ERHARD
LOUIS JOHN GARDELLA
JOHN JOSEPH HAYES
EDWIN MICHAEL MURRAY
EDWARD JOSEPH NOONAN

High School Diplomas—College Preparatory Course

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DARRELL LESLIE BROWN
MAURICE JOSEPH COSTELLO
JAMES FREDERICK DEALY
JOHN BERNARD ECCLES
VINCENT MURRAY GRANER
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EUGENE JAMES O'REILLY
JOHN JOSEPH QUINN
BERNARD HARMON RAHILL
GEORGE CHARLES SCHMIDT
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The Radford Medal for Natural Science.
Awarded to GEORGE CUNNINGHAM SHANNON
Next in Merit: EDWARD FRANCIS JOYCE
Donor, Alpha Sigma Beta in memory of
Harry V. Radford, C.E., '01.

MANHATTAN COLLEGE

ANNUAL PUBLIC SPEAKING CONTEST

for the

GRADY MEMORIAL MEDAL

DE LA SALLE HALL - - - MARCH 28, 1920

Program

OVERTURE - - - - - - - - - - *Kalliwoda*

"Lord, that I may see"
STEPHEN C. WILLSON

An Indictment of Socialism
MAURICE J. COSTELLO

SELECTIONS:—(*a*) Intermezzo - - *Mascagni*
(*b*) "Pretty Little Rainbow" *Plunkett*

Catholicism and Civilization
WILLIAM J. KENVILLE

A Catholic Daily
EUGENE J. O'REILLY

INTERLUDE: Mosaic - - - - - - - - *Seredy*

Ireland's Appeal to America
PAUL M. R. BRENNAN

The True Spirit of Labor
GEORGE J. HAYES

Program (Continued)

VOCAL SOLO: "Wonderful Pal"
JOHN J. O'REILLY

Recognition of Irish Independence
JAMES J. COSTELLO

Catholic Lay Apostolate
THOMAS F. FARRELL, JR.

BANJO SELECTIONS: FRANK DE LOY
Piano: Rafael Nieto

Decision of the Judges

FINALE—National Airs
ORCHESTRA

Judges of the Contest:

HON. GEORGE J. O'KEEFE
DR. DANIEL J. DONOVAN
HON. JOHN J. DELANEY

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FORM OF BEQUEST

TO

Manhattan College

I give and bequeath to MANHATTAN COLLEGE, New York City, the sum of _____ *dollars to be expended by the trustees in such manner as seems to them most useful to the College.*

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